

# Titus M Franzmann

## List of Publications by Citations

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38  
papers

4,887  
citations

25  
h-index

43  
g-index

43  
ext. papers

6,568  
ext. citations

14.4  
avg, IF

5.59  
L-index

#	Paper	IF	Citations
38	A Liquid-to-Solid Phase Transition of the ALS Protein FUS Accelerated by Disease Mutation. <i>Cell</i> , <b>2015</b> , 162, 1066-77	56.2	1388
37	Some like it hot: the structure and function of small heat-shock proteins. <i>Nature Structural and Molecular Biology</i> , <b>2005</b> , 12, 842-6	17.6	639
36	RNA buffers the phase separation behavior of prion-like RNA binding proteins. <i>Science</i> , <b>2018</b> , 360, 918-923	33.3	491
35	Phase separation of a yeast prion protein promotes cellular fitness. <i>Science</i> , <b>2018</b> , 359,	33.3	344
34	RNA-Induced Conformational Switching and Clustering of G3BP Drive Stress Granule Assembly by Condensation. <i>Cell</i> , <b>2020</b> , 181, 346-361.e17	56.2	243
33	An aberrant phase transition of stress granules triggered by misfolded protein and prevented by chaperone function. <i>EMBO Journal</i> , <b>2017</b> , 36, 1669-1687	13	237
32	A pH-driven transition of the cytoplasm from a fluid- to a solid-like state promotes entry into dormancy. <i>ELife</i> , <b>2016</b> , 5,	8.9	227
31	Different Material States of Pub1 Condensates Define Distinct Modes of Stress Adaptation and Recovery. <i>Cell Reports</i> , <b>2018</b> , 23, 3327-3339	10.6	121
30	A User's Guide for Phase Separation Assays with Purified Proteins. <i>Journal of Molecular Biology</i> , <b>2018</b> , 430, 4806-4820	6.5	109
29	The eye lens chaperone alpha-crystallin forms defined globular assemblies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 13272-7	11.5	102
28	Prion-like low-complexity sequences: Key regulators of protein solubility and phase behavior. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 7128-7136	5.4	101
27	Activation of the chaperone Hsp26 is controlled by the rearrangement of its thermosensor domain. <i>Molecular Cell</i> , <b>2008</b> , 29, 207-16	17.6	86
26	Multiple distinct assemblies reveal conformational flexibility in the small heat shock protein Hsp26. <i>Structure</i> , <b>2006</b> , 14, 1197-204	5.2	77
25	Protein condensates as aging Maxwell fluids. <i>Science</i> , <b>2020</b> , 370, 1317-1323	33.3	75
24	Protein refolding by pH-triggered chaperone binding and release. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 1071-6	11.5	74
23	The activation mechanism of Hsp26 does not require dissociation of the oligomer. <i>Journal of Molecular Biology</i> , <b>2005</b> , 350, 1083-93	6.5	73
22	Reentrant liquid condensate phase of proteins is stabilized by hydrophobic and non-ionic interactions. <i>Nature Communications</i> , <b>2021</b> , 12, 1085	17.4	68

21	Condensation of Ded1p Promotes a Translational Switch from Housekeeping to Stress Protein Production. <i>Cell</i> , <b>2020</b> , 181, 818-831.e19	56.2	53
20	Protein Phase Separation as a Stress Survival Strategy. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2019</b> , 11,	10.2	53
19	Identification of a hypochlorite-specific transcription factor from Escherichia coli. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 6892-903	5.4	47
18	Regulatory circuits of the AAA+ disaggregase Hsp104. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 17992-8001	9.1	39
17	Tandem acyl carrier proteins in the curacin biosynthetic pathway promote consecutive multienzyme reactions with a synergistic effect. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 2795-8	16.4	35
16	Regions outside the alpha-crystallin domain of the small heat shock protein Hsp26 are required for its dimerization. <i>Journal of Molecular Biology</i> , <b>2010</b> , 398, 122-31	6.5	28
15	Defective ribosomal products challenge nuclear function by impairing nuclear condensate dynamics and immobilizing ubiquitin. <i>EMBO Journal</i> , <b>2019</b> , 38, e101341	13	27
14	Characterization of a highly flexible self-assembling protein system designed to form nanocages. <i>Protein Science</i> , <b>2014</b> , 23, 190-9	6.3	25
13	Structural and mechanical hierarchies in the alpha-crystallin domain dimer of the hyperthermophilic small heat shock protein Hsp16.5. <i>Journal of Molecular Biology</i> , <b>2010</b> , 400, 1046-56	6.5	21
12	The crystal structure of Escherichia coli group 4 capsule protein GfcC reveals a domain organization resembling that of Wza. <i>Biochemistry</i> , <b>2011</b> , 50, 5465-76	3.2	20
11	Structural and functional analysis of the DEAF-1 and BS69 MYND domains. <i>PLoS ONE</i> , <b>2013</b> , 8, e54715	3.7	18
10	Intracellular Mass Density Increase Is Accompanying but Not Sufficient for Stiffening and Growth Arrest of Yeast Cells. <i>Frontiers in Physics</i> , <b>2018</b> , 6,	3.9	15
9	Directed Growth of Biomimetic Microcompartments. <i>Advanced Biology</i> , <b>2019</b> , 3, e1800314	3.5	14
8	Filament formation by the translation factor eIF2B regulates protein synthesis in starved cells. <i>Biology Open</i> , <b>2020</b> , 9,	2.2	10
7	Structural Fuzziness of the RNA-Organizing Protein SERF Determines a Toxic Gain-of-interaction. <i>Journal of Molecular Biology</i> , <b>2020</b> , 432, 930-951	6.5	5
6	Filament formation by the translation factor eIF2B regulates protein synthesis in starved cells		4
5	Matrix-assisted refolding of oligomeric small heat-shock protein Hsp26. <i>International Journal of Biological Macromolecules</i> , <b>2006</b> , 39, 104-10	7.9	3
4	Tandem Acyl Carrier Proteins in the Curacin Biosynthetic Pathway Promote Consecutive Multienzyme Reactions with a Synergistic Effect. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 2847-2850	3.6	2

- 3 Phase separating RNA binding proteins form heterogeneous distributions of clusters in subsaturated solutions 1
- 2 Intracellular mass density increase is accompanying but not sufficient for stiffening and growth arrest of yeast cells 1
- 1 Structural fuzziness of the RNA-organizing protein SERF1a determines a toxic gain-of-interaction 1